Indiana Department of Environmental Management <u>DWSRF PRELIMINARY DESIGN SUMMARY</u>

I. General Information

Project Name:

Description of Present Situation:

A.

B.

C.	Estimated Project Costs:		
	1.	Total Cost:	
	2.	Source of Funding:	
		II. Design Data	
A.	Curre	ent Population:	
B.	Design Year and population:		
C.	Design Demand:		
	1.	Domestic:	
	2.	Industrial/Commercial	
D.	Peak Demand:		
		III. Water Supply	
A.	Surfa	ce Water	
	1. Lo	ocation:	
	2. Ty	/pe:	
	3. Sc	ource volume:	

В.	Groun	dwater Well(s): Existing	
	1.	Number:	
	2.	Location:	
	3.	Type and Diameter of Well	
	4.	Capacity:	
	5.	Standby Power:	
	6.	Well House:	
	7.	Aquifer Type:	
C.	Flow Meters		
	1.	Type:	
	2.	Location:	
	3.	Indication, recording and totalizing:	
		IV. Treatment	
A.	Provid	le Raw Water Analysis	
В.	Indicate the type of treatment		
C.	Gener	al	
	1.	Number of Pumps:	
	2.	Capacity of Pump:	
D.	Clarif	arification	
	1.	Rapid Mix Unit	

	Number:	
	Size:	
	Detention time:	
2.	Flocculation Unit	
	Number:	
	Size:	
	Detention time:	
	Agitator Speed:	
	Velocity:	
3.	Sedimentation Unit	
	Number:	
	Size:	
	Detention:	
	Baffle Location:	
	Overflow Rate:	
	Velocity:	
	Sludge Removal:	
	Detention Time:	
Filtration		
1.	Type:	

E.

2.

Number and Size of Units: N/A

		a. at peak flow rate:
		b. at average flow rate:
	4.	Type, depth, and grain size of filter media:
	5.	Backwash rate:
	6.	Backwash pumps (number and capacity)
	7.	Method of rate control:
	8.	Source and capacity of backwash tank:
	9.	Holding capacity of dirty water tank:
	10.	Method of Cleaning:
	11.	Disposal of Backwash Solids:
F.	 Typ Cap Dis: Cor Poin Aut Ver 	e of Disinfectant Used: e of feeder acity: infectent Dosage: itact Time: int of Application: omatic Switchover: itilation Provided: ety equipment:

3.

Filtration rate:

	10. Testing Equipment:			
	ousing:			
G. Iron and I		and Manganese Control		
	1.	Type of System:		
Н.	Softe	ftening:		
	1.	Type:		
	2.	Aeration:		
	3.	Chemical Feed Point:		
	4.	Sludge removal and disposal method:		
	5.	Number and size of brine and salt storage tank:		
	6.	Brine Waste Disposal:		
	7.	Housing:		
I.	Aera	Aeration		
	1.	Type:		
	2.	Loading Rate:		
		V. Water Starage		
	Tr. I	V. Water Storage		
A.	Tanl			
	1.	Type:		
	2.	Number:		

	3.	Capacity:
	4.	High Water Level:
	5.	Elevation at Bottom of Tank:
	6.	Available Pressure:
	7.	Booster Pump:
		VI. Distribution System
A.	Water	Lines
	1.	Type of Pipe Material:
	2.	Diameter and Lengths:
	3.	Number of Hydrants:
	4.	Number and size of valves:
	5.	Stream, Highway, and Railroad Crossings:
	6.	Replacement of Existing New Lines:
	7.	Water Main Separation from Sewers:
	8.	Water Main vertical distance:
В.	Fire P	rotection:
		VII. Miscellaneous
A.	Labora	atory Equipment:
B.	Safety	Equipment:
C.	Fence	Location and Type:

- D. Handrail for the tanks:
- E. Relationship to Flood Elevation:
- F. Provisions to maintain water supply during construction:
- G. Standby Power Equipment:
- H. Site inspection:
- I. Statement in the specifications as to the protection against any adverse environmental effect (e.g. dust, noise, soil erosion) during construction:
- J. Hoists for removing heavy equipment:
- K. Adequate sampling facilities:
- L. Structural Work Proposed on Building:

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